Piezo Switch N.O.

Alu natural
non-illuminated

Gold
non-illuminated

PSE M16

See below:
Approvals and Compliances

Description

- Available in version Standard and lettered
- Assembly by mounting with nut
- Easy to clean due to a tightly closed surface (IP69K)
- Pins, Wire or Faston

Unique Selling Proposition

- Variety of design options regarding size, colour, shape, connection or lettering
- High reliability, long lifetime with more than 20 mill. actuations

Characteristics

- Housing material types: plastic, aluminum or stainless steel, ring illuminated version additionally made of polyamide
- For use in harsh environments, both indoors and outdoors (see technical data)

Other versions on request

- switch for longer switching signal duration, type: PSE IV
- Switch for explosion proof applications, type: PSE EX
- Switch with enhanced vandal proof protection, type: PSE HI

References

Alternative: switch vandal improved: PSE HI 22
Alternative: switch for EX proved applications: PSE EX 16; PSE EX 19; PSE EX 22
Alternative: Other diameter
Alternative: Other diameter PSE NO 19; PSE NO 22
Alternative: switch with prolonged signal: PSE AE 16; PSE AE 30; PSE IV 19

Weblinks

pdf data sheet, html datasheet, General Product Information, CAD-Drawings, Product News, Detailed request for product

Technical Data

Electrical Data	
Switching Function	momentary
Switching Voltage	max. 42 / 60 VAC/DC
Switching Current	max. 100 mA
Electrical Rating	1 W
Lifetime	20 million actuations at Rated Switching Capacity
Switch Resistance OFF	> 10 MΩ
Switch Resistance ON	< 20 Ω actuated (Ta = 25°C)
Capacity	5 nF
N.O. Closing Impulse Duration	20- 1000 ms depending on actuating force, time and speed
Contact Configuration	free polarity
RGB Illumination	
Current Consumtion (max per color)	-

Mechanical Data	
Actuating Force	≤ 3 N at ambient temperature
Actuating Travel	0.002 mm
Shock Protection	IK 02
Mounting screw torque	2.5 Nm
Climatical Data	
Operating Temperature	-40 to 85 °C
Storage Temperature	-40 to 85 °C
IP-Protection	IP67 acc. to IEC 60529, IP69K acc. to DIN 40050-9
Environmental Assessment	+55°C / 93% r.h. acc. to DIN EN 60068-2-30
Salt Spray Test (acc. to DIN 50021-SS)	24 h / 48 h / 96 h Residence Time
Material	
Housing (depending on type)	Stainless Steel, Aluminium anodized, Polyamide
Actuating Area / Insert (with Ring Illumination)	Stainless Steel, Aluminum anodized
Illuminated Ring (Ring Illumination)	Polyamide

Approvals and Compliances

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in Details about Approvals

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

Application standards

Application standards where the product can be used

Organization	Design	Standard	Description
IEC	Designed for applications acc.	IEC/UL 62368-1	IEC 62368-1 includes the basic requirements for safety of audio, video, information technology and office equipment.

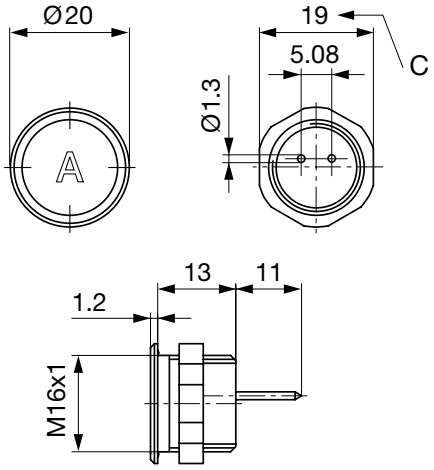
Compliances

The product complies with following Guide Lines

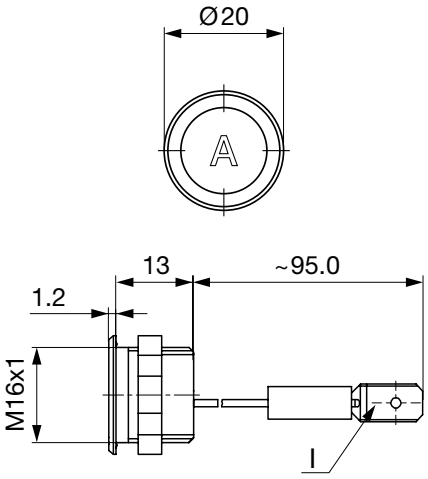
Identification	Details	Initiator	Description
RoHS COMPLIANT	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
REACH	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.

Dimension [mm]

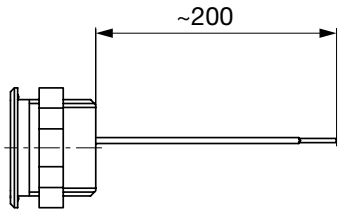
PSE M16 with Pins



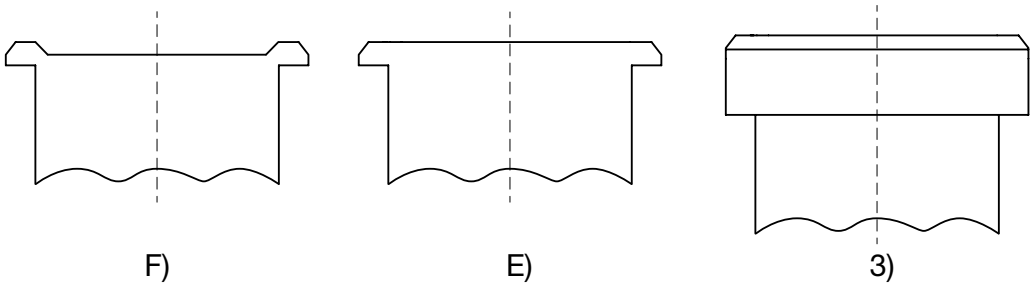
PSE M16 with Faston



PSE M16 with stranded wire



Design actuating area



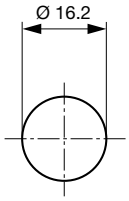
Legende:
C = Schlüsselweite
I = Flachsteckzunge 6,3 x 0,8

Beschriftung:
- wahlweise mit/ohne Beschriftung
- Lage der Anschlüsse zur Lage der Beschriftung ist nicht definiert

F) mit Fingerführung
E) ohne Fingerführung
3) erhöhte Frontform M19 (Standard, weitere auf Anfrage)

Dimension

PSE M16

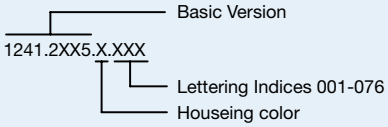


Drilling diagram

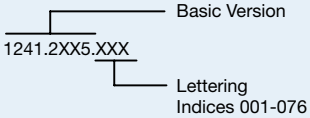
Lettering

The last three digits in the order number define the lettering:	
001-076	Standard Lettering
101-	Customized Lettering

Lettering - Aluminium / Plastic Material



Lettering - Stainless Steel



Lettering Colour of Laser Lettering

Material	Lettering Colour		
Stainless Steel	black	Filled letters	
Aluminum natural anodized	light grey	Filled letters	(only after customer approval)
Aluminum coloured anodized	light grey	Filled letters	

Order Index Lettering

Laser Marking			
001 =**A**	021 =**U**	041 =÷	061 =**EIN**
002 =**B**	022 =**V**	042 = ✳	062 =**AUS**
003 =**C**	023 =**W**	043 ==**=**	063 =**AUF**
004 =**D**	024 =**X**	044 = #	064 =**AB**
005 =**E**	025 =**Y**	045 = ↔	065 =**ON**
006 =**F**	026 =**Z**	046 = ↕	066 =**OFF**
007 =**G**	027 =**0**	047 = →	067 =**UP**
008 =**H**	028 =**1**	048 = ←	068 =**DOWN**
009 =**I**	029 =**2**	049 = ↓	069 =**HIGH**
010 =**J**	030 =**3**	050 = ↑	070 =**LOW**
011 =**K**	031 =**4**	051 = %	071 =**ON/OFF**
012 =**L**	032 =**5**	052 = √	072 =**START**
013 =**M**	033 =**6**	053 =**CTRL**	073 =**RESET**
014 =**N**	034 =**7**	054 =**RETURN**	074 =
015 =**O**	035 =**8**	055 =**SHIFT**	075 =
016 =**P**	036 =**9**	056 =**LOCK**	076 =
017 =**Q**	037 =**+**	057 =**STOP**	077 =
018 =**R**	038 =**-**	058 =**ENTER**	
019 =**S**	039 =**.**	059 =**BACK**	
020 =**T**	040 = x	060 =**LINE**	

All Variants

Mounting Diameter	Terminal	Housing Material, Torsion Protection	Colour of Housing	Actuator area	Illumination, LED	Config. Code	Order Number	
16	Faston	Aluminum ,no	red	F	non-illuminated	PSE M 16 NO Alu/St	1241.3000	
16	Faston	Aluminum ,no	green	F	non-illuminated	PSE M 16 NO Alu/St	1241.3001	
16	Faston	Aluminum ,no	black	F	non-illuminated	PSE M 16 NO Alu/St	1241.3002	
16	Faston	Aluminum ,no	Alu natural	F	non-illuminated	PSE M 16 NO Alu/St	1241.3003	▮
16	Faston	Plastics ,no	Alu natural	F	non-illuminated	PSE M 16 NO K	1241.2356	
16	Flexible wire connection	Aluminum ,no	gold	F	non-illuminated	PSE M 16 NO Alu/St	1241.3336.075	
16	Pins	Aluminum ,no	gold	F	non-illuminated	PSE M 16 NO Alu/St	1241.2411.1	
16	Pins	Aluminum ,no	red	F	non-illuminated	PSE M 16 NO Alu/St	1241.2411.3	▮
16	Pins	Aluminum ,no	blue	F	non-illuminated	PSE M 16 NO Alu/St	1241.2411.4	
16	Pins	Aluminum ,no	green	F	non-illuminated	PSE M 16 NO Alu/St	1241.2411.5	
16	Pins	Aluminum ,no	black	F	non-illuminated	PSE M 16 NO Alu/St	1241.2411.7	
16	Pins	Aluminum ,no	Alu natural	F	non-illuminated	PSE M 16 NO Alu/St	1241.2411.8	▮
16	Pins	Plastics ,no	red	F	non-illuminated	PSE M 16 NO K	1241.2350	▮
16	Pins	Plastics ,no	white	F	non-illuminated	PSE M 16 NO K	1241.2351	
16	Pins	Plastics ,no	Alu natural	F	non-illuminated	PSE M 16 NO K	1241.2352	▮
16	Pins	Plastics ,no	black	F	non-illuminated	PSE M 16 NO K	1241.2353	
16	Pins	Stainless Steel ,no	-	F	non-illuminated	PSE M 16 NO Alu/St	1241.2611	▮

Nut with gasket are enclosed in the box.

Other mounting diameters, materials, colors, connections, supply voltages possible available on request.
Special materials e.g. Marine grade stainless steel for use in salt and chlorinated environment on request.

The MOQ for standard laser lettering on standard variants is a packing unit.

▮ Most Popular.

Availability for all products can be searched real-time:https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER

Legend:

Mounting Diameter	Terminal	Housing Material, Torsion Protection	Colour of Housing	Actuator area	Illumination, LED	Config. Code	Order Number

Type: PSE

NO = normaly open

K = Plastics

Alu = Aluminium

ES = Stainless steel

F = Finger guidance

Packaging unit 10 in box with insert or packed in air cushion bags

- Actuating elements in ESD safe packaging
- Screw nuts and sealing rings in a bag (enclosd in the box)

Accessories

	Description
	Connecting Terminal PSE Connecting Terminal

25.06.2020

The specifications, descriptions and illustrations indicated in this document are based on current information. All content is subject to modifications and amendments. Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability and test each product selected for their own applications.

LifeElectronics
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- *Подбор аналогов.*
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- *Тестирование поставляемой продукции.*
- *Поставку компонентов, требующих военную и космическую приемку.*
- *Входной контроль качества.*
- *Наличие сертификата ISO.*

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- *Изготовление тестовой платы монтаж и пусконаладочные работы.*

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